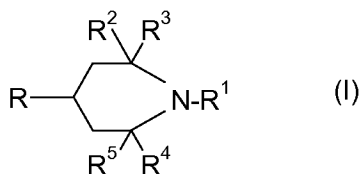


We claim

1. A thermoplastic molding composition, comprising

- 5 A) a polyamide A1), containing at least one end group derived from a piperidine compound of the formula (I)



where

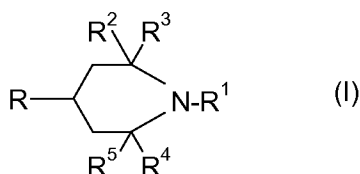
- 10 R is an amide-forming group R⁷ or a functional group R⁸ which bears from 1-4 identical or different amide-forming groups R⁷,
 R¹ is H, C₁-C₂₀-alkyl, cycloalkyl, benzyl, or OR⁶, where
 R⁶ is H, C₁-C₂₀-alkyl, cycloalkyl, or benzyl,
 R², R³, R⁴ and R⁵, independently of one another, are C₁-C₁₀-alkyl, where R¹, R²,
 15 R³, R⁴ and R⁵ may be different or identical, and
 R⁷ has been selected from the group consisting of -(NHR⁹), where R⁹ is H, alkyl having from 1 to 8 carbon atoms, cycloalkyl having from 3 to 10 carbon atoms, or alkylene having from 2 to 20 carbon atoms, carboxy, and carboxylic acid derivatives, and
 20 B) a copolymer, selected from
- B1) a rubber-free random copolymer, containing, as monomeric units,
 b11) a styrene monomer,
 25 b12) a monomer which contains a functional group which can react with the end groups of the polyamide present in component A), and
 b13) a monomer which contains no functional groups which react with the end groups of the polyamide present in component A),
- 30 B2) a block copolymer of Y-X structure, containing
 B21) from 95 to 99.5% by weight of block Y, containing, as monomeric units,
 b21) a mixture composed of
 b211) a styrene monomer, and
 35 b212) a comonomer other than maleic anhydride, or
 b22) an ethylenically unsaturated ester

and

- 5 B22) from 0.5 to 5% by weight of block X, composed of a styrene monomer and of a copolymerizable anhydride, or of a copolymerizable acid, or of a mixture of these, as monomeric units, where the block X has, in essence, a strictly alternating structure;
- where the entirety of the components B21) and B22) is 100%, and
- 10 B3) a rubber-free, random copolymer, containing, as monomeric units
 b31) methyl methacrylate,
 b32) a copolymerizable anhydride, or a copolymerizable acid, or a mixture of these, and
 b33) also, if desired, methacrylic esters or acrylic esters, or a mixture of these.
- 15 2. A thermoplastic molding composition as claimed in claim 1, where the polyamides A) have at least one end group derived from a piperidine compound, where R is a group of the formula $\text{-NH-R}^8\text{-NH-}$, where R^8 is an alkylene group having from 1 to 20 carbon atoms.
- 20 3. A thermoplastic molding composition as claimed in claim 1 or 2, where component A) is a mixture composed of polyamide A1) and of a polyamide A2) which contains no end groups which derive from a piperidine compound.
- 25 4. A thermoplastic molding composition as claimed in any of claims 1 to 3, where, as additional component C), a graft copolymer C1) is present, containing a rubber as graft base c11) and a graft c12) based on an unsaturated monomer.
- 30 5. A thermoplastic molding composition as claimed in any of claims 1 to 3, where, as additional component, a rubber-free matrix polymer C2) is present, which in essence comprises, as monomeric units,
- c21) a styrene monomer or a (meth)acrylic ester, and, if desired,
- 35 c22) an unsaturated nitrile, maleimide, or maleic anhydride, or a mixture of these.
6. A thermoplastic molding composition as claimed in any of claims 1 to 4, where component C) is a mixture composed of two graft copolymers C1) whose rubber contents differ from one another by at least 5% by weight.
- 40 7. A thermoplastic molding composition as claimed in any of claims 1 to 5, comprising from 0.3 to 1.5% by weight, based on the total weight of the molding composition,

tion, of a stearate or silicone oil, or a mixture of these.

8. A process for preparing thermoplastic molding compositions as claimed in any of claims 4 to 7, which comprises, in a first step, preparing a graft copolymer P) from a portion of component A) and the entire amount of component B), and, in a second step, mixing the graft copolymer P) with the other components and with the remaining amount of component A).
9. A graft copolymer, obtainable by grafting a polyamide A1 containing at least one end group derived from a piperidine compound of the formula



where

- R is an amide-forming group R⁷ or a functional group R⁸ which bears from 1-4 identical or different amide-forming groups R⁷,
 R¹ is H, C₁-C₂₀-alkyl, cycloalkyl, benzyl, or OR⁶, where
 R⁶ is H, C₁-C₂₀-alkyl, cycloalkyl, or benzyl,
 R², R³, R⁴ and R⁵, independently of one another, are C₁-C₁₀-alkyl, where R¹, R², R³, R⁴ and R⁵ may be different or identical, and
 R⁷ has been selected from the group consisting of -(NHR⁹), where R⁹ is H, alkyl having from 1 to 8 carbon atoms, cycloalkyl having from 3 to 10 carbon atoms, or alkylene having from 2 to 20 carbon atoms, carboxy, and carboxylic acid derivatives, and

with a copolymer B), selected from

- B1) a rubber-free random copolymer, containing, as monomeric units,
 b11) a styrene monomer,
 b12) a monomer which contains a functional group which can react with the end groups of the polyamide present in component A), and
 b13) a monomer which contains no functional groups which react with the end groups of the polyamide present in component A),
 B2) a block copolymer of Y-X structure, containing
 B21) from 95 to 99.5% by weight of block Y, containing, as monomeric units,
 b21) a mixture composed of

- b211) a styrene monomer, and
- b212) a comonomer other than maleic anhydride, or
- b22) an ethylenically unsaturated ester

5 and

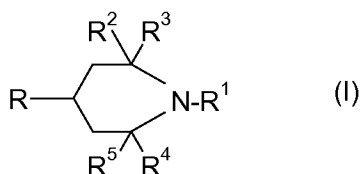
- B22) from 0.5 to 5% by weight of block X, composed of a styrene monomer and of a copolymerizable anhydride, or of a copolymerizable acid, or of a mixture of these, as monomeric units,
 10 where the block X has, in essence, a strictly alternating structure;

where the entirety of the components B21) and B22) is 100%, and

- B3) a rubber-free, random copolymer, containing, as monomeric units
 15 b31) methyl methacrylate,
 b32) a copolymerizable anhydride, or a copolymerizable acid, or a mixture of these, and
 b33) also, if desired, methacrylic esters or acrylic esters, or a mixture of these.

20

10. The use of polyamide A1), containing at least one end group derived from a piperidine compound of the formula (I)



25 where

- R is an amide-forming group R^7 or a functional group R^8 which bears from 1-4 identical or different amide-forming groups R^7 ,
 30 R^1 is H, C_1 - C_{20} -alkyl, cycloalkyl, benzyl, or OR^6 , where
 R^6 is H, C_1 - C_{20} -alkyl, cycloalkyl, or benzyl,
 R^2, R^3, R^4 and R^5 , independently of one another, are C_1 - C_{10} -alkyl, where R^1, R^2, R^3, R^4 and R^5 may be different or identical, and
 R^7 has been selected from the group consisting of $-(NHR^9)$, where R^9 is H, alkyl having from 1 to 8 carbon atoms, cycloalkyl having from 3 to 10 carbon atoms, or alkylene having from 2 to 20 carbon atoms, carboxy, and carboxy derivatives, and
 35

as color stabilizer for rubber-modified thermoplastic molding compositions.

11. The use of the thermoplastic molding compositions as claimed in any of claims 1 to 7, or prepared as claimed in claim 8, for producing moldings, foils, fibers, or foams.
- 5 12. A molding, a foil, a fiber, or a foam, obtainable using thermoplastic molding compositions as claimed in any of claims 1 to 7, or prepared as claimed in claim 8.
13. A vehicle-interior component obtainable using moldings, foils, fibers, or foams as claimed in claim 12.